LONDON INSTITUTE OF SPACE POLICY AND LAW

SPACE POLICY & LAW COURSE

11 TO 13 OCTOBER 2021

ON-LINE

MONDAY 11 OCTOBER 2021

- 1. SPACE ENVIRONMENT AND TECHNOLOGY 09.15 10.30*
 - Delimitation of Space and Airspace
 - Environmental characteristics
 - Orbits, types of spacecraft, mega-constellations
 - Discussion and questions

BREAK - 10.30 - 10.40

- 2. Policy Formulation and Institutions 10.40 12.00
 - Policy Principles, Peaceful Use, Non-appropriation, Cooperation and Non-interference
 - Policy development and institutions
 - International and National Institutions nature and role
 - UN COPUOS, ESA, Regional Organisations and operating methods
 - National Policies, formulation and implementation
 - Discussion and questions

LUNCH - 12.00 - 12.45

- 3. THE LEGAL REGIME 12.45 14.00
 - Sources of Space Law, Outer Space Treaties, UN Resolutions
 - Other regimes Antarctic, Law of the Sea and Air Law
 - International Responsibility and Liability distinguished
 - National space laws and Licensing
 - Norms, Practices, Guidelines, Regulations and Standards
 - Discussion and questions

Break - 14.00 - 14.10

- 4. THE LAWS GOVERNING SPACE APPLICATIONS 14.10-15.30
 - Sovereignty, Property Rights
 - Remote Sensing: UN Principles and Disaster Charter
 - Earth Observation: Data and Information
 - Scientific experiment, Exploration and Exploitation
 - Manned space activities: The ISS & its IGA; Chinese Space Station
 - Discussion and questions

BREAK - 15.30 - 15.40

* Times given are GMT+1 (London time) and need to be corrected for your local time zone.

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5. Satellite Communications - 15.40 – 16.50

- Telecommunications and Broadcasting: The Role of the ITU
- Orbital Positions, Co-ordination
- Spectrum management: Frequency Efficiency and Market Reach
- Harmful interference, jamming, signal interception, cyber security, frequency priority, EU and the ITU
- Discussion and questions

TUESDAY 12 OCTOBER 2021

6. COMMERCIAL SPACE ACTIVITIES - 09.15 - 10.30

- Nature and range of commercial space ventures
- PNT Applications and Services
- Spaceflight and Spaceports
- Small Satellite Constellations, On-orbit Servicing
- Regulation, Market Access
- Discussion and questions

BREAK - 10.30 - 10.40

7. RISK, LIABILITY AND INSURANCE - 10.40 - 12.00

- Laws Governing Liability (Risk and Fault)
- Liability for Debris and Obligation not to Create
- Active Debris Removal Remediation vs Mitigation
- Insurance
- Discussion and questions

LUNCH - 12.00 - 12.45

8. Current and Future Developments - 12.45 - 14.00

- Constellations, Small Satellites
- Focus on Applications
- Extra-terrestrial habitation
- Artemis Accords
- Discussion and questions

BREAK - 14.00 - 14.10

9. CURRENT AND FUTURE DEVELOPMENTS - 14.10 – 15.10

- EU and ESA Relationship
- UK ESA and EU Relationship
- Space Powers Mid-century, US, China, Russia, India, Japan, EU
- Discussion and questions

BREAK - 15.10 - 15.20

10. MILITARY USES AND SECURITY - 15.20 - 16.30

- Military support functions and Space Weapons
- Space a "war-fighting" domain
- Role of Cyber, Drones and Robotics
- Environmental and humanitarian factors
- Small Satellite Constellations potential and risks
- Discussion and questions

WEDNESDAY 13 OCTOBER 2021

11. SPACE HAZARDS AND SAFETY - 09.15 - 10.30

- Space hazards Man made and natural: Meteorites, Debris
- Space Situational Awareness and Space Traffic Management
- Space Weather
- Discussion and questions

BREAK - 10.30 - 10.40

12. SPACE HAZARDS AND SAFETY - 10.40 - 12.00

- Debris Reduction and Elimination Measures
- Responsible Behaviour, Transparency and Confidence Building Measures
- Terrestrial environmental impact
- Discussion and questions

LUNCH - 12.00 - 12.45

13. CASE STUDIES - 12.45 – 13.45

- Recovery and Return
- Debris (liability, sovereignty, space situational awareness and other concepts)
- Mining (Commercial & State participation, property rights, potential pollution from space, appropriation and the issue of territory vs. resources, and other concepts)
- Active Debris Removal

14. REVIEW & CONCLUSION - 13.45 - 15.00

• Course Summary, Discussion and conclusion

LECTURERS

CB	Dr Christoph Beischl, ISPL Research Fellow
RC	Prof Richard Crowther, Chief Engineer, UK Space Agency; ISPL Faculty & Adviser
J-JD	Prof Jean-Jacques Dordain, CNES; past ESA Director-General; ISPL Faculty & Adviser
JE	Dr Jonathan Eastwood, Director, Space Lab, Imperial College London
ЛG	Prof Joanne Irene Gabrynowicz, Emeritus Professor, Mississippi University; ISPL Faculty
JG	Prof Maj Jeremy Grunert, US Air Force Academy; Mississippi Univ. Air & Space Law Centre
YΗ	Yvon Henri, Former Chief, Space Services, ITU; Member, Radio Regulation Board, ITU
SM	Prof Sa'id Mosteshar, Barrister; Senior Associate Research Fellow, IALS; ISPL Director
LJS	Prof Lesley Jane Smith, Partner, Weber-Steinhaus & Smith; ISPL Faculty
AS	Alexander Soucek, Head, International Law Division, ESA
J-JT	Jean-Jacques Tortora, Director, European Space Policy Institute (ESPI)
ΙZ	Ilaria Zilioli, Legal Officer, ESA; ISPL Faculty

DISCUSSANTS

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The Discussants will join the discussion as the occasion arises.